



INVENTORY REPORT FOR CLASS III AND CLASS IV IMPOUNDING STRUCTURES

Reference: Impounding Structure Regulations, 4VAC50-20-00 et seq., Virginia Soil and Water Conservation Board

1. Project Information:
 - a. Name of Impounding Structure _____
 - b. Inventory Number _____ Other Name (if any) _____
 - c. Name of Reservoir _____
 - d. Purpose of Reservoir _____

2. Location of Impounding Structure:
 - a. City/County _____ Magisterial District _____
 - b. Located _____ feet/miles upstream/downstream of Highway. No. _____
 - c. Name of River or Stream _____
 - d. Latitude _____ Longitude _____

3. Ownership:
 - a. Owner's Name _____
 - b. Mailing Address _____

 - c. Telephone (____) _____

4. Owner's Engineer:
 - a. Engineering Firm/Engineer _____
 - b. Professional Engineer Virginia Number _____
 - c. Mailing Address _____

 - d. Telephone (____) _____

5. Impounding Structure Data (All elevations NGVD unless noted):

a. Type of Material earth_____ concrete_____ masonry_____

Other_____

Design Configuration

b. Top of Dam _____ Elev. (if known)

c. Downstream Toe (Lowest) _____ Elev. (if known)

d. Height of Dam _____ Feet

e. Crest Length (Exclusive of Spillway) _____ Feet

f. Crest Width _____ Feet

g. Upstream Slope _____ H: _____ V

h. Downstream Slope _____ H: _____ V

6. Reservoir Data

Design Configuration

a. Maximum Capacity _____ Acre-feet

b. Maximum Pool _____ Elev. (if known)

c. Maximum Pool Surface Area _____ Acres

d. Normal Capacity _____ Acre-feet

e. Normal Pool _____ Elev. (if known)

f. Normal Pool Surface Area _____ Acres

g. Freeboard (Normal Pool to Top) _____ Feet

h. Freeboard (Normal Pool to Emergency) _____ Feet

7. Spillway Data	<u>Type</u>	<u>Construction Material</u>	<u>Maximum Capacity</u>
a. Low Level Drain	_____	_____	_____
b. Principal Spillway	_____	_____	_____
c. Emergency Spillway	_____	_____	_____

Design Configuration

d. Low Level Drain _____ Elev. (if known)

e. Principal Spillway _____ Elev. (if known)

f. Emergency Spillway _____ Elev. (if known)

g. Briefly describe the low level drain and principal spillway to include dimensions, materials of construction, trash guards, location in reservoir and through dam, and orientation of intake and discharge to dam if looking downstream: _____

h. Describe the emergency spillway to include dimensions, whether the spillway is an earth channel or other construction, spillway surface protection, and orientation to dam if looking downstream: _____

8. Watershed Data (Class III only):

a. Drainage Area _____ Sq. Miles

b. Type and Extent of Watershed Development _____

c. Time of Concentration _____ Method _____

d. Spillway Design Flood used (mark appropriate box)

_____ PMF, source _____

_____ 1/2 PMF, source _____

_____ 100 Year, source _____

_____ 50 Year, source _____

_____ Other, source _____

e.. Design inflow hydrograph: Volume _____ acre-feet;

Peak inflow _____ C.F.S.;

Rainfall duration of design inflow hydrograph _____ hours

f. Freeboard during passage of spillway design flood _____ feet

9. Impounding Structure History

a. Date construction completed _____

b. Design by _____ Date: _____

c. Built by _____ Date: _____

- d. Inspection dates _____
- e. Inspections by _____
- f. Description of repairs _____
- g. Has the impounding structure ever been overtopped? ____ Yes ____ No

10. Impounding Structure Assessment:

a. Provide brief descriptions for each item:

- i. Condition of the impounding structure _____
- _____
- _____
- ii. Condition of the reservoir _____
- _____
- _____
- iii. Condition of the upstream area _____
- _____
- _____
- iv. Condition of the downstream area _____
- _____
- _____

b. Provide a narrative describing any recent changes in the impounding structure, reservoir, upstream area, and downstream area: _____

c. Recommendations for remedial measures: _____

11. Provide a sketch of the impounding structure.

CERTIFICATION BY OWNER'S ENGINEER (Class III only)

I hereby certify that the information provided in this Inventory Report has been examined by me and found to be true and correct in my professional judgment.

Signed _____
(Professional Engineer)

Virginia Number _____

This _____ day of _____, 20_____.

CERTIFICATION BY OWNER (Class IV only)

I hereby certify that the information provided in this Inventory Report is true and correct.

Signed _____
(Owner)

This _____ day of _____, 20_____.

Please fill out and mail to:
Department of Conservation and Recreation
Division of Dam Safety
203 Governor Street
Richmond, Virginia 232192094